

# Polaroid Names Killian Director "Experience and Insight" Cited

Last Thursday Polaroid Corporation of Cambridge announced its election of Dr. James R. Killian, Jr. as a corporation director. President of Polaroid, Dr. Edwin H. Land, said of the election: "Dr. Killian brings to the Board long experience in the organization and administration of scientific and educational activities and a deep insight into the interdependent social and technical responsibilities of industry. In particular, Dr. Killian and I share the conviction that the individual in industry will best be able to meet the increasing technical demands of his job, and at the same time make it fully satisfying, by continuing his education as a life-long part of his working career, whether he follows his studies in industry or in the university. I look forward to Dr. Killian's participation in pursuing this.

Dr. Killian's association with MIT began when he transferred from Duke University to MIT and graduated from the MIT school of industrial management with the degree of Bachelor of Science. He was assistant managing editor of "The Technology Review" and served as its editor for nine years. He was also the treasurer of the MIT Alumni Association for twelve years. In 1949 he became President of the Institute and now is serving as President of the MIT Corporation.

Dr. Killian's career has been marked with many honorary degrees, appointments, and directorships. He became a leading figure in American science and technology when he served as Special Assistant to President Eisenhower for Science and Technology and was a member and former chairman of the President's Science Advisory Committee.

## LSC to Present Pops Conductor

Arthur Fiedler, conductor of the Boston Pops Orchestra, will hold an open forum on Tuesday, December 15, at 6 P.M., in Kresge Auditorium. Mr. Fiedler is appearing at MIT under the auspices of the Lecture Series Committee. The forum is open to all members of the MIT community, and should be especially interesting to those students who have become acquainted with the Pops and its famous conductor during their residence at MIT.

Mr. Fiedler has chosen to conduct an open forum with his audience instead of the usual lecture. The whole forum will be conducted on a question-and-answer basis in hopes that the final effect will be more informative and interesting to a larger audience than the normal lecture. The entire success of such a forum will depend

upon an interested and active audience whose common virtue (or so the Lecture Committee hopes) will be INQUISITIVENESS! Cards for questions will be passed out at the forum by members of the Lecture Committee, and these questions will then be read by the committee members to Mr. Fiedler onstage.

Mr. Fiedler, a native of Boston, received his musical education in Vienna and the Royal Academy in Berlin. In 1929, Mr. Fiedler founded the now famous summer Esplanade concerts in Boston. He is presently enjoying his 31st season as conductor of the Boston Pops Orchestra. He has likewise conducted in San Francisco, Chicago, and Milwaukee, and other major American cities. In his capacity as a musical conductor, Mr. Fiedler toured South America last year, and expects to tour Mexico this coming year.

## By-law Changes Anticipated

## IFC Weekend Planning Begins

Plans for IFC Weekend 1960 are underway. At last Thursday night's IFC meeting Bob Dulskey, '61, Weekend Chairman, brought up motions concerning the financing of the Weekend.

No theme is planned this year, nor are the games of last year's "Wild West Weekend" expected to be repeated. Dulskey mentioned the possibility of displays in front of each house rather than the float parade.

Maynard Ferguson and his Orchestra have been booked for the Friday night formal on May 6.

On the agenda, but not presented at the IFC meeting, was a set of proposed revisions of the By-laws of the IFC Investigating Committee. IFC Chairman Joe Verdeber, '60, remarked to *The Tech* that he expected that the changes would be brought up at the next IFC meeting.

The anticipated changes are expected to reflect recent discussions concerning publication of the names of houses involved in violations of the IFC Rushing Rules.

Since September the Investigating Committee has announced two violations to the IFC. One involved a charge that a pledge from Delta Tau Delta had been sent out during Rush Week without his pledge pin to rush other freshmen. Delta Tau Delta was fined \$50 by the IFC Investigating Committee and their name was made public at an IFC meeting.

The second announced violation of rush rules handled by the Investigating Committee this term concerned Dover Club's alleged undue retainment of a rushee who had made a previous date with another house and failed to notify them of the change.

The Investigating Committee revoked Dover's rushing privileges for one day, but did not announce the Club's name to the IFC. At last month's IFC meeting, Dover Club appealed the decision of the Investigating Committee. The appeal was upheld. No alternative punishment for Dover Club has been announced.

There will be no issue of *The Tech* Friday, December 18. The entire staff of *The Tech* wishes you the Merriest of Christmases and the Happiest of New Years.

# Merry Christmas The Tech

NEWSPAPER OF THE UNDERGRADUATES OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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## Chem. Dept. Head Elected

## Cope To Head ACS

Professor Arthur C. Cope has been chosen president-elect of the American Chemical Society. The head of the department of chemistry at the Massachusetts Institute of Technology and one of the nation's foremost organic chemists will direct the 88,000-member society in 1961. He will succeed Dr. Albert L. Elder, director of research of the Corn Products Company, Argon, Illinois.

Professor Cope was elected in a nation-wide mail ballot of ACS member chemists and chemical engineers in 49 states, the District of Columbia and Puerto Rico. Results of the balloting will appear in the December 14 issue of the Society's official publication, *Chemical and Engineering News*.

Professor Cope, the new ACS president-elect, is now serving as chairman of the Society's Board of Directors and has been a member of the Board since 1951. As a scientist, he is internationally known for his research in organic chemistry, including exceptional achievements in the fields of drugs and plastics. In 1944 he won the \$1,000 American Chemical Society Award in Pure Chemistry, sponsored by the professional chemical fraternity Alpha Chi Sigma. In 1958 he was named Charles Frederick Chandler medalist and lecturer by the trustees of Columbia University "for distinguished research contributions to knowledge of organic chemistry and energetic and widespread services to the profession of chemistry and science in general."

Chemical warfare agents and anti-malarial drugs were among the important areas of research in which Dr. Cope was active during World War II, when he was technical aide and section chief in the division of chemistry of the National Defense Research Committee. He won the Certificate of Merit of the United States Government for his services. He is at present a member of the National Research Council's division of chemistry and chemical technology and has written a textbook on organic syntheses and numerous scientific papers.

Besides carrying out significant chemical research and participating in administrative duties at MIT, Dr. Cope is widely known for his role in professional affairs. He joined the American Chemical Society in 1930 and served as chairman of its Division of Organic Chemistry in 1946 and of its Northeastern Section in 1955. He is a member of the advisory board of the *Journal of the American Chemical Society* and a former member of the advisory board of the *Journal of Organic Chemistry*. He is a member of the American Association for the Advancement of Science, the National Academy of Sciences, the American Academy of Arts and Sciences, Sigma Xi, Alpha Chi Sigma, Phi Kappa Phi, Phi Lambda Upsilon, Gamma Alpha and Sigma Nu.

He was born at Dunreith, Indiana.  
(Continued on page 8)



Professor Arthur C. Cope  
Head of Chemistry Department

## WTBS Says Happy Holidays

Commemorating the end of a decade, WTBS will present a history of popular music of the past ten years Thursday night. The program, which is to be arranged chronologically, will run from 5 to 9 P.M.

The recapitulation of pop music is to be just one part of a special Christmas programming to be broadcast all Thursday evening. Following the pop music show will be an hour of semi-classical Christmas music, from 9 to 10.

At 10 P.M. a reading of "The Other Wise Man" by Henry Van Dyke will be presented by Buck Rogers, '61, WTBS Program Manager. This adult Christmas story is remembered for moving passages and consistent beauty of lines. The evening will be concluded with a program of Christmas music running till 1 A.M.

WTBS will leave the air for Christmas vacation following the Rise and Shine show Friday morning.

## Sabicas to Perform 22 Invited Into PR

Sabicas, considered by many to be one of the finest flamenco guitarists in the world, will make a personal appearance on campus January 9. The show, to be sponsored by Pershing Rifles, will be held at 8:30 P.M., in Kresge Auditorium, and is open to the public.

According to Gus Orringer, '61, Operations Officer for the local company of Pershing Rifles, profits from the performance will help pay the operating expenses of the company, which is not supported by the institute.

Pershing Rifles is a national organization with a local branch on campus. The group now has 40 active members, having initiated 22 members last Thursday. Those initiated were:

Paul D. Abramson, Maurice P. Adrien, Robert C. Beach, Harvey Bines, James R. Brown, Randall Cauffiel, Arthur D. Edgar, Michael T. Finson, Bruce F. George, Daniel Hudgings, Arthur Krewinghaus, Burton H. Levy, Robert A. Lodge, Charles Lopez, Creve Maples, Jerry D. Martin, Henry R. Nau, William R. O'Day, Robert L. Reeves, William F. Schmid, Charles Tucek, and Stanley Zabrowski.

## Frosh Debate Team Overpowers Harvard Castle Wins Fourth Place at Tourney

The Frosh negative debating squad soundly defeated a negative squad of Harvard sophomores in a Tournament at St. Anselms last Saturday.

The entire team, Ralph Grabowski and Steve Rapheal for the Negative, and John Castle and Norm Langemach for the affirmative, placed 6th out of 18 competing teams and the affirmative was one of the best affirmative teams at the tournament. Castle's scores won him fourth place among 36 affirmative speakers and his partner was only four points behind him. The debate topic was: Resolved, That Congress should be given the power to reverse decisions of the Supreme Court.

The negative also defeated St. John's of Brooklyn, last year's winners.

### Varsity Wins All But One

Last Saturday the Varsity squad debated the same topic at a Harvard tournament. The affirmative team was composed of George Bedell, '61, and Phil Hauptman, '62, and the negative, Steve Wanner, '63, and Dan Gourley, '63. The only defeat was with Wesleyan when the Tech negative was forced to forfeit because Steve Wanner left the debate before his final rebuttal speech to

## Senior House Men Celebrate Christmas

On Saturday night the Institute's newest room was the scene of the Second Annual Senior House Christmas Party. The party in the new Vannevar Bush Room was attended by about 35 couples as well as several special guests including President and Mrs. Stratton.

Entertainment for the evening was provided by a four piece orchestra which played both dance music and Christmas carols.

## Danish Composer to Appear Here

Tonight at 8:30, in Kresge Auditorium, Finn Videro, well-known Danish organist, harpsichordist, composer, and musicologist will present a recital of works from late 17th and early 18th century composers. His program will be: "Prelude and Fugue in G Minor", "Canzona in C Major", "Ciaccona in E Minor" by Buxtehude; "Offertoire sur les Grands Jeux in G Major" by Couperin; "Meinen Jesus lass ich nicht" by Walther; "Toccata and Fugue in D Minor", "Prelude and Fugue in A Major", "Sei gegruset, Jesu gutig" by Bach.

Mr. Videro, known for his organ and harpsichord recordings is presently on leave of absence from Yale University. He is the first of three organ recitalists who will appear in Kresge under the sponsorship of the MIT Humanities Department. Subsequent programs will include Andre Marchal on March 8 and Lawrence Moe on May 3. Single tickets at \$2.00 or series subscriptions at \$4.00 are available from the Kresge Auditorium ticket office, Extension 2902.

## IMA Elects Seven Ness New President

The Industrial Management Association meeting last Thursday, elected its new Executive Committee. Those men selected to lead IMA are the following: Dave Ness, '61, President; Alan Loss, '62, Vice President of Publicity; Jose Riondo, Secretary; Michael Zimmerman, '61, Treasurer; Daniel Schuman, '61, Program Chairman; Don Moehrke, '62, Member-at-large; Steve Levy, '62, Membership Chairman.

According to President Dave Ness, some 25 to 30 members of IMA met in Freeman Lounge in Building 52 for the elections. Ness announced that first up on the agenda was a joint meeting of the new and old executive boards to work out future plans.

Obtain Registration Material for Second Term as follows:

Show Registration Certificate.  
All Regular Students — Building Ten Lobby, Tuesday, January 5, from 8:45 A.M. to 4:30 P.M. After this day obtain material at the information office.

## Commons and Sense

The recent epidemic of seemingly unknown origin in Baker House has brought, in its aftermath, some points and some points of view to light which merit consideration.

First for the points of view. Some residents of Baker, the only undergraduate dormitory with a dining room, have the attitude that anything which is compulsory is not to be tolerated. Probably the only thing on the MIT campus which is required, other than academic performance and bill paying, is the commons meals for the residents of Baker House. If this anti-compulsory attitude really prevails, as House President Tapperro has said, then these are a few values which must be examined.

The economic facts of life demand that if a dining room be installed people must eat there in order to make the operation pay, or at least break even. By this criterion alone compulsory commons are justifiable. On the other hand, it seems to us as if it must be very nice to have a dining room in one's dormitory; the Burton residents will vouch for this on cold winter nights. It is also another step in the direction of the residential atmosphere which MIT is striving for in its dormitory planning. Many fraternity men have "compulsory" meals, but we have never heard any complain because of the set up; instead they are proud to have a place to eat in their residents. We suggest that complainers who find fault only on the principle of compulsory meals reconsider their feelings in a more realistic and sensible light.

Next for the points. In any situation where MIT feels the necessity of requiring something of the students, it takes on a definite responsibility toward them. In the case of commons, the responsibility is to provide the best possible service and to do everything possible to make commons dining acceptable to those who partake of the service. From the discussions precipitated by the Baker illnesses, it becomes apparent that this responsibility has been somewhat neglected. In a number of cases, specific dissatisfactions of Baker diners has been neglected. This type of operation can do nothing but promote ill will toward the present system.

While the uncomfortable events of last week may not have been due to commons meals, the result has been an all-too-seldom and much needed evaluation of commons conditions.

## letters

### The Doctor Corrects

TO THE EDITOR:

Your report of the recent outbreak of gastroenteritis published in the December 11 issue contains two seriously misleading misquotations.

The first sentence reads "A report issued by the Medical Director James M. Faulkner states that an epidemic of gastroenteritis, a common type of food poisoning (italics mine), occurred at Baker House last week end". The implication that the episode at Baker House was a type of food poisoning is completely contrary to my opinion and to the evidence presented in the report. Gastroenteritis is not a type of food poisoning and although it may be caused by food poisoning I think I made it clear in my report that a careful check failed to implicate any article of food in this instance and furthermore the clinical pattern of this illness was not characteristic of food poisoning.

In my report which you published you omitted a paragraph without making mention of it. This paragraph referred to a study which was made to determine if a correlation could be established between any item on the menu and the later development of gastroenteritis. The paragraph read as follows: —

"The questionnaire was designed to show just which dishes from the menu each student had eaten on Thursday. The answers showed clearly that no particular dish could be implicated."

The complete distortion of the truth in the opening sentence and the omission of an important paragraph from what purports to be a complete report are hardly in keeping with the standards of journalism which we would like to see in *The Tech*.

Sincerely yours,  
James M. Faulkner, M.D.  
Medical Director

### Gastroenteritis, Cont.

TO THE EDITOR:

This is to advise you, and those residents of Burton House who have not yet questioned me, that the remarks attributed to me concerning the recent troubles at Baker House are incomplete and at best an inaccurate interpretation of a telephone conversation with one of your reporters.

The incident WAS unfortunate, and inexcusable. It should not be condoned, nor explained away by the administrators who are involved. I said that the matter would come before the House Committee only if it would be brought up by one of the members. Finally, I said that the

Commons Committee would not meet hastily, just because there were troubles at Baker House. Informal meetings with the administration have already been held, and I believe that our progress has been consistent with the oft revised timetable for the Dining Hall construction.

Richard L. Greenspan  
President  
Burton House Committee

## half notes

### King David

Sunday afternoon in Kresge Auditorium the MIT Musical Clubs presented a stirring performance of Arthur Honegger's "King David" conducted by Paul Boepple and featuring the combined glee clubs of MIT and Bennington College, the MIT Orchestra, and soloists: Joyce McIntosh, soprano; Robin Longanecker, alto; Louise Fenn, alto; Donald Sullivan, tenor; and Robert Brooks, narrator.

"King David" combines chorus, soloists and orchestra with a narrative of David's rise from a lowly shepherd to a prophet king. In the text of the oratorio, the Old Testament story is ingrained with New Testament philosophy. This combination is also evident in Honegger's score which embraces two musical styles: the "primitive" oriental tone color and percussion, and the polyphonic style of Bach.

The performance was excellent. Both glee clubs handled their difficult parts with assurance except for a few entrances which were not as clear as they might have been. Diction was precise and the chorus blended well. The soloists were commendable and special mention must be given for Miss Fenn's excellent dramatic interpretation of the "Incantation of the Witch of Endor". Mr. Brook's narration was impressive, to say the least.

The success of this concert, however, rests with the MIT Orchestra whose performance was of remarkably professional calibre throughout, and of course to Mr. Boepple for a dynamic interpretation. He guided both the orchestra and chorus with precision and strength and as a result, produced a performance that will stand as one of the most outstanding efforts of the Musical Clubs for many years.

Kent Kresa, '59

### MIT Concert Band

Few college bands would care or dare to perform music of the technical difficulty and interpretive complexity of the program presented last Friday night by the MIT Concert Band under the direction of John Corley. Rather than perform the popular marches or the standard transcriptions of orchestra works for band, as do most college bands, they presented five selections from the rapidly growing library of original band music.

That "modern" music does conform to "classical" forms and obeys understandable rules was well demonstrated by Mr. Corley and the Band with regard to the major work on the program, Thomas Beversdorf's "Symphony for Winds and Percussion," composed in 1954. Mr. Corley gave a brief verbal analysis of each movement and called upon single instruments or small sections of the Band to illustrate the analysis by playing thematic statements, inversions, augmentations, and the like. While, if overdone, this type of commentary could become tedious, in this case it was of great interest and assistance to both the audience and the Band, the quality of whose performance was considerably enhanced by their increased knowledge of the structure of the music. Technically as well as structurally this composition is very intricate, and at times the Band was not quite in command of the music, though on the whole it did a competent job, and the percussion section was outstanding.

Mr. Jack Sirulnikoff's "Green Mountain Overture" for band was the highlight of the first half of the program. Composed at Bennington College earlier this year, the overture proved to be a delightful piece of music, full of many warm and interesting moods. Mr. Corley and the Band gave the piece a nice interpretation, although the instrumentalists tended to fall down on thinly scored passages, where faulty intonation and wrong notes were sometimes evident. The solo clarinets, however, did a particularly beautiful and sensitive job.

The brass section made the most of its opportunity to show off in Gould's programmatic rhapsody "Jericho," exhibiting fine strength in depth, and performing with precision and color. The Grainger march was a loud and peppy opener. The Holst prelude and scherzo, "Hammer-smith," was performed least successfully, as the Band seemed unable to transcend the notes and capture the mysterious moods of the prelude and the end of the scherzo.

Noel S. Bartlett, '60

## xmas and the x

Was down around Washington Street the other day, among the joyous Xmas crowds. Peace and Good Will were prevalent, and even cab drivers were only blowing their horns at the pedestrians. I was filled with Compassion and Benevolence as I watched the children enjoying the Xmas spectacle. The entire Xmas Pageantry gleamed from the show windows — St. Santa Claus and His elves, the Partridge in the Pear Tree. As I looked at the candy canes and evergreens, my heart was carried back to the Real Meaning of Xmas. Inside I looked over some Cards — the ones with the true Xmas scene — a Vermont landscape with a Sleigh and Snow and The Message inside — "Season's Greetings." St. Santa's cheery face smiled down on the Shoppers as they went about their Missions. A lovely Salesgirl kept her Compassionate Smile even while pacifying two old ladies who each wanted the Bargain \$4.98 Santa Claus for their grandchild. (It's so wonderful — inspiring the little ones early.) The packages and displays are getting Brighter yearly — they tell me Chesterfield has next year's Gift Pack planned already — a rendition of the manger scene and wrapped with a ribbon reading "And it came to pass. . . ." (However, I think it is something of a regression.) More to my liking is Imperiale's ad for next Season: The three wise men loading a case on their camels and underneath the caption, "Knowledgeable people buy Imperiale and they buy it by the case." Oh well, Jingle Bell Rock is coming on the radio, and sentimental me wants to hear it all — you know, the Xmas Spirit. Joyous Yuletide, everyone.

BBR



### DECK THE HALLS

When you think of Christmas gifts you naturally think of Marlboro cigarettes, leading seller in flip-top box in all fifty states—and if we annex Wales, in all fifty-one—and if we annex Lapland, in all fifty-two. (This talk about annexing Wales and Lapland is, incidentally, not just idle speculation. Great Britain wants to trade Wales to the United States for a desert. Great Britain needs a desert desperately on account of the tourist trade. Tourists are always coming up to the Prime Minister or the Lord Privy Seal, or the Thane of Glamis, or like that and saying, "I'm not knocking your country, mind you. It's very quaint and picturesque, etc., what with Buckingham Palace and Bovril and Scotland Yard, etc., but where's your desert?"



Before I forget, let me point out that Scotland Yard, Britain's plain-clothes police branch, was named after Wally Scotland and Fred Yard who invented plain clothes. The American plain-clothes force is called the F.B.I. after Frank B. Incheliff, who invented fingerprints. Before Mr. Incheliff's invention, everybody's fingers were absolutely glassy smooth. This, as you may imagine, played hob with the identification of newborn babies in hospitals. From 1791 until 1904 no American parent ever brought home the right baby from the hospital. This later became known as the Black Tom Explosion.

(But I digress. England, I was saying, wants to trade Wales for a desert. Sweden wants to trade Lapland for Frank B. Incheliff. The reason is that Swedes to this day still don't have fingerprints. As a result, identification of babies in Swedish hospitals is so haphazard that Swedes flatly refuse to bring their babies home. There are, at present, nearly a half-billion unclaimed babies in Swedish hospitals—some of them well over eighty years old.)

But I digress. Marlboro is, of course, an ideal Christmas gift for your friends and loved ones who enjoy filter cigarettes. If, on the other hand, your friends and loved ones like mildness but don't like filters, then you can't go wrong with a carton of Philip Morris. If your friends and loved ones like a subtly mentholated cigarette that combines refreshing taste with high filtration, then buy a carton of Alpines. (Alpines, incidentally, are named after the late Albert G. Pine. Al Pine worked all his life to invent a cigarette that would combine light menthol and high filtration, but alas he never succeeded. As by-products of his research he did manage to invent the atom, the gooseneck lamp and the cocker spaniel, but the lightly mentholated high filtration cigarette, alas, never. Now this dream is realized, and what could be more fitting than to pay tribute to this gallant man by calling this cigarette Alpine?)

© 1959 Max Shulman

We, the makers of Marlboro, Philip Morris and Alpine are now enjoying our sixth year with Max Shulman. Obviously, we think he is a funny fellow. We think you'll think so too, if you look at his television series "THE MANY LOVES OF DOBIE GILLIS"—and read his latest book, "I WAS A TEEN-AGE DWARF."



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20th. CENTURY ROMANCE 378-379  
Techniques in handling women  
No academic credit, but who cares  
Professor Romeo M.

The effects of well-groomed hair on romantic success in the mid-twentieth century. Laboratory demonstration of 'Vaseline' Hair Tonic, its effect on hair and women. Disastrous action of H<sub>2</sub>O on hair. Salutory effect of H<sub>2</sub>O plus 'Vaseline' Hair Tonic on hair. Term Paper: Unfavorable reaction of females to male's use of alcohol tonics and hair creams (Stickywig's Law of Diminishing Returns). Students taking this course are advised to stock up on 'Vaseline' Hair Tonic and keep week ends open.

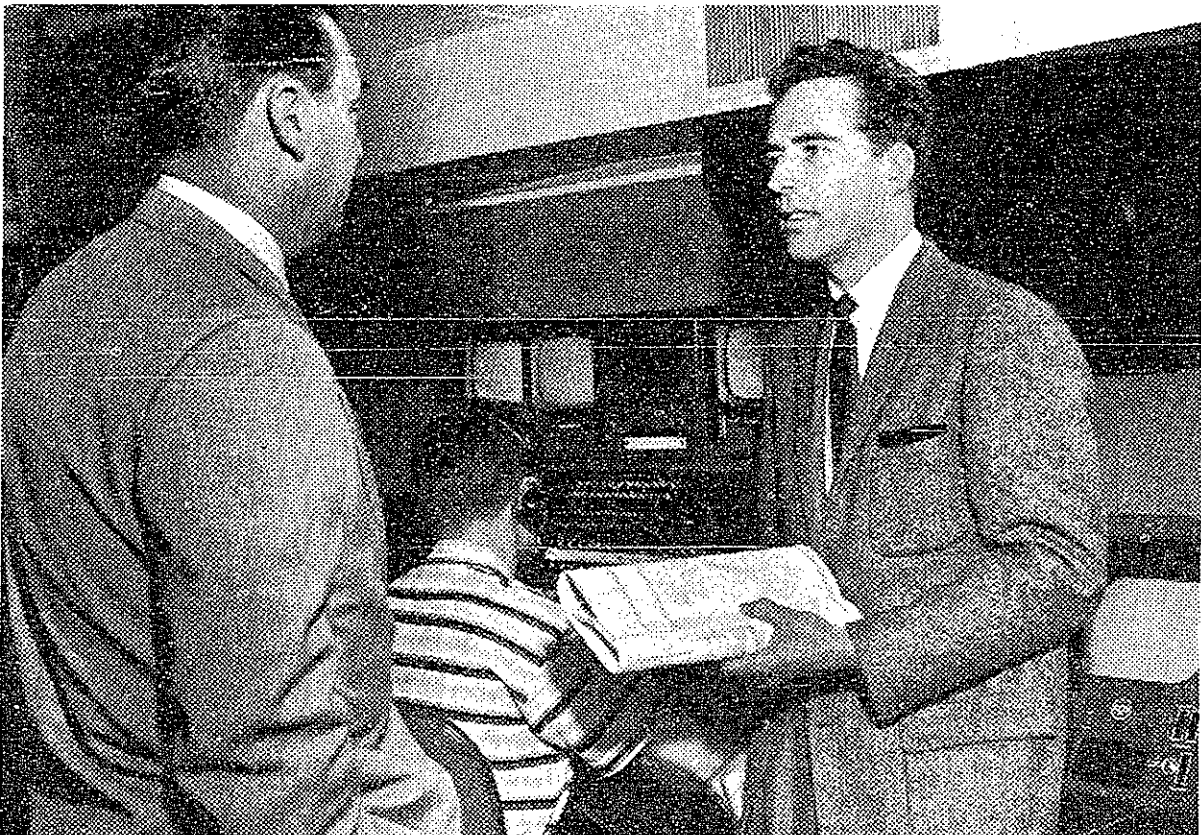
Materials: one 4 oz. bottle 'Vaseline' Hair Tonic



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A Campus-to-Career Case History



In the master control room of San Diego TV station KFMB-TV, Max Beere discusses a new studio-transmitter link with chief engineer Charles Abel.

His "temporary" job became a career

Max P. Beere spent two years at the University of Hawaii while with the U. S. Navy, then earned his B.S. degree in Engineering at the University of Utah, where he served as technical lighting director for numerous campus theater and television shows.

On graduating in 1955, he fancied a television career for himself, but felt that, being married, he couldn't afford to serve a TV apprenticeship.

Max had an interview with the Pacific Telephone and Telegraph Company in Los Angeles. "I was offered a position in transmission engineering," he says. "It sounded great—but I really thought of it as a 'temporary' thing until I could get into television."

Max's TV career came sooner than he had hoped. Assigned as telephone com-

pany liaison with the TV networks, he was soon surveying microwave relay routes for the "Wide, Wide World" show, and working on "remote" and mobile telecasts from such interesting locations as Death Valley and rocket-launching sites deep in the desert.

In August, 1958, he was transferred to San Diego, where he took on full responsibility for TV-and-radio Special Services. This led to a particularly satisfying assignment in early 1959—the development of a new and successful closed-circuit educational TV system for 18 elementary schools in Anaheim.

"The telephone company really opened my eyes," says Max. "It's a fine place to work, where new ideas are welcomed and recognized and chances for advancement are excellent. I'm sold on it."

Max Beere is one of many young men with varied college backgrounds who are finding stimulating careers in the Bell Telephone Companies. Learn about opportunities for you. Talk with the Bell interviewer when he visits your campus—and read the Bell Telephone booklet on file in your Placement Office.



Santa Claus and Children  
Fun for the Fraternities

The annual MIT fraternity Christmas parties, given for the benefit of local orphans and underprivileged children, were held over the past weekend. Among those fraternities participating were Delta Upsilon, Kappa Sigma, Phi Mu Delta, Lambda Chi Alpha and Phi Kappa Theta. The others were not known at press time. Delta Kappa Epsilon went carolling at an Old Folk's Home instead of the usual party in the House this year.

Each House had 15-40 children in for several hours either Saturday or Sunday afternoon. The 5 to 10 year olds were picked up by fraternity members from Settlement Houses and Orphanages and brought back for the parties. Among the various entertainments supplied were movies, cartoons, toys, and general horseplay. The children were well fortified with ice cream and cake and assorted other goodies.

To top off the afternoon in most houses, Santa Claus put in an appearance, generally the fattest member available, laden with a substantial gift for each child. After a chance to get used to their new toys the children were returned, very reluctant to leave.

Christmas parties have become a great tradition with fraternity groups. As one member put it, "We just like to help. Everybody feels better afterwards."

Sophs Form Drinking Club

Tradition Followed; SIF Is Formed

SEX, SIN, SIF, and Club 60 are organized for the increased consumption and enjoyment of the boon from the bottle, liquor. These drinking organizations, unique in MIT for their spontaneity and absence of bureaucracy, sponsor highly spirited parties for all the members of their particular class.

**Formerly P-Clubs**

Before 1956, a P-Club (P for party) sprang to life each year as some members of the Senior Class continued the tradition of former years and worked together, without constitution, officers, chairmen, or even INSCOMM, to provide cocktail parties and the like to brighten the final year at MIT for their classmates.

**SEX Takes Over**

Some members of the Class of 1959 decided that this P-Club was a fine idea for sophomore and junior years as well. Since the P-club of the Senior year was already in existence, a new name had to be chosen. Sigma Epsilon Chi, SEX, was the chosen name. Like its predecessor, it operated without organization other than the common bond of devotion to Bac-

chus and their class.

**Other Classes Follow**

Club 60 became the name of the drinking club of the class of 1960. Sigma Iota Nu, SIN, became the rallying cry for the drinkers of the class of '61.

In the great tradition, some of the class of '62 recently decided their class needed such a drinking club. As is the usual procedure for the clubs, one of the interested volunteered his living group as the place for the party. As usual, prices and arrangements were made by place of the party. The first cocktail party of the class of 1962 took place at the Sammy house, December 12. The Sammy house took care of the advertising, as traditionally, in *The Tech*, inviting all members of the class. The name of the drinking club was decided at the party. About 70 sophomores attended.

**SIF Selected**

Ahead of such suggestions as IN and SIP came Sigma Iota Phi. SIF is now the official name of the completely unofficial drinking club of the class of 1962.

There is a tradition at MIT.



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## MIT Receives Grant for Adhesives Bikerman to Head Research Here

The technique of making materials stick together, an important process in many industrial and commercial applications, has been significantly improved in laboratory research here at MIT.

The research has resulted in making previously non-stick substances highly adhesionable, and has substantiated a scientific theory that it termed a "break-through" in the field of industrial chemistry.

An internationally known expert on adhesive joints formulated the theory and carried out the research. He is Jacob J. Bikerman, a research associate in the Department of Civil and Sanitary Engineering. Since 1956, Mr. Bikerman has been supervisor of the department's adhesives laboratory.

"Adhesive joints" is the technical term for the sticking together, or bonding, of two or more materials. The emergence of completely new systems in recent years, especially those composed of metal and plastics, has brought a need for more effective methods of joining components for a wide variety of applications. Some of the new polymeric materials (plastics) are constructed so that their adhesive properties are poor, or non-existent. Polyethylene, the transparent plastic used to wrap groceries and vegetables, is such a material.

On October 30, the National Science Foundation announced the award of a grant of \$23,600 to MIT for support of basic research entitled "Factors Determining the Strength of Adhesive Joints." The grant will allow Mr. Bikerman to carry out additional research in support of his theory.

Mr. Bikerman's theory is that one material fails to adhere well to another material because chemical impurities and low-weight molecules cause a tiny "boundary layer" to form between the two. This very thin surface film is weak, so that any stress causes a break or tear along the film. The effect may be caused by a phenomenon known as "syneresis".

Using polyethylene in his laboratory, Mr. Bikerman has proved that breaks and ruptures do occur in this boundary layer area. In carefully controlled and recorded tests, he has also substantiated his theory by chemically removing the impurities and making polyethylene cling tenaciously to various metals, glass and plastics. Without such treatment polyethylene is non-adhesionable and is also extremely difficult to print upon.

In the field of industrial chemistry, this theory refutes the long-standing and generally accepted belief that the strength of an adhesive joint is determined by the molecular attraction between the adherend (the solid to which a material is attached) and the adhesive. Those who accept the molecular attraction, for example, say that a material like polyethylene will not adhere because of the weak molecular field surrounding its molecules.

The process used to make a non-sticking substance stick is called fractional crystallization. This process removes the low-weight molecules and the impurities. The material is dissolved in boiling solvents such as cyclohexane or toluene. When precipitated with acetone, polyethylene can be used as an adhesive between steel and steel, steel and glass, glass and glass, glass and aluminum, and in other combinations. Peeling tension of aluminum-polyethylene-glass joints registered up to 90 ounces per inch (about 5½ pounds) as compared to close to zero with non-treated materials.

The important aspect of the work, Mr. Bikerman pointed out, is not that it is effective with polyethylene alone, but that it supports his theory. This means a significant improvement in the adhesionable qualities of many different types of materials, to the ultimate benefit of industrial and commercial enterprises. The National Science Foundation grant, which is for two years duration, will allow further research with additional materials.

Mr. Bikerman has been busy and productive at MIT. In 1958 alone, he published a book, five of his technical papers were published in professional journals, and he received a patent. Born in Odessa, Russia, in 1898, he was graduated from the University of St. Petersburg in 1921. From 1921 until 1935 he was in Germany as a research associate at Kaiser-Wilhelm Institute of Physical Chemistry and later as assistant editor of an organic chemistry series. He conducted research in England from 1936 until 1939 at the Universities of Manchester and Cambridge, and for the next six years worked as a chemist and leader of adhesives research in several industries in Great Britain. He came to the United States in 1945, and was a senior chemist for Merck and Company, in New Jersey until 1951, then a senior chemist for Yardney Laboratories in New York before coming to MIT to supervise the adhesives laboratory.

Mr. Bikerman is married, has two children and four grandchildren, and lives at 26 Concord Avenue, Cambridge.

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# Dear Dr. Frood:

## Historic event! DR. FROOD REVEALS HIS ADDRESS

(See below)

**Dear Dr. Frood:** My roommate continually steals my Luckies. What should I do?  
*Sinned Against*



**Dear Sinned Against:** The most successful defense is the traditional African one. Mold a small wax image of your roommate. Then, at full moon, insert half a dozen common household pins into the hands of the image.

~ ~ ~



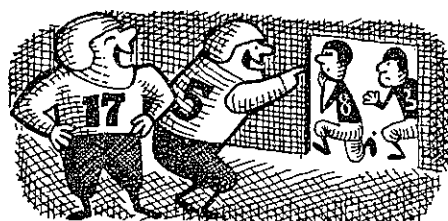
**Dear Dr. Frood:** I was out with my girl and I saw this old lady and I laughed and I said, "Did you ever see such a worn-out old hag?" and my girl told me it was her mother. What can I do now?  
*Outspoken*

**Dear Outspoken:** Take your left foot in your right hand and jerk sharply until it comes out of your mouth.

**Dear Dr. Frood:** If I were demented enough to want to write to you, how would I go about it?  
*Pen Pal*

**Dear Pen Pal:** Address your letter to:  
Dr. Frood  
Box 2990  
Grand Central Station  
New York 17, N.Y.

No phone calls please. Thus far I've been unable to have a phone installed here in the box.  
~ ~ ~



**Dear Dr. Frood:** Our football team has lost 8 games a year for the last 6 years. How can we improve our record without letting the old coach go?  
*Alumni Pres.*

**Dear Alumni Pres.:**  
Schedule fewer games.

**Dear Dr. Frood:** I am a 5'1" co-ed with a figure exactly like the Venus de Milo's. Would you say I should be in the movies?  
*Lovely*

**Dear Lovely:**  
I'll say anything you want me to.  
~ ~ ~

**Dear Dr. Frood:** I told my fiancée we can't afford to get married until I finish college. She insists that two can live as cheaply as one. Is this true?  
*Dubious*

**Dear Dubious:**  
Yes. If they take turns eating.

**DR. FROOD ON HARASSING  
HABITS OF ROOMMATES**



Roommates resent these common faults in roommates: Staring at my girl's picture. Not staring at my girl's picture. Studying when I'm not. Having a homely sister. Having no sister at all. Only one thing is more annoying than having a roommate who always runs out of Luckies: Having a roommate who doesn't smoke Luckies.

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The following new fraternity telephone extensions will come into effect today and will rescind all others published prior to this date:

Delta Tau Delta	3174
Delta Upsilon	3264
Phi Kappa Sigma	3785
Phi Kappa Theta	3175
Sigma Alpha Epsilon	3782
Sigma Chi	3784
Tau Epsilon Phi	3783
Theta Chi	3265

**TECHNIQUE**

Seniors who have as of yet not had their pictures taken for the yearbook still have the opportunity to do so. Harvard Studio, the official yearbook photographer, is accepting individual appointments through December 15. No pictures will be taken after this date.

**Sherlock Holmes Examines  
The Shirt On Your Back**

It's likely that Sherlock Holmes, who was able to tell a man's personality, marital status, occupation, and problems from the clothes he wore, would have more trouble today. A revolution in clothes-making has made old social distinctions difficult. The next time you're riding on a bus, take a look at the man seated next to you. The cut of his clothes will probably tell you only one thing: whether he's sloppy or neat. It would be hard to draw any further conclusions.

In one famous story, Holmes decided a man was a butcher by the style of his shirt collar. In those days, the shirt you wore was like a neon sign — a definite indication of your job. Bartenders were famous for their candy-striped shirts with contrasting collars, clerks for their cardboard-starched whites, and a waiter was never without his bone-stiff ebony front.

**Classy Shirts**

Shirts have long been identified with certain classes and occupations. In ancient Greece, only the slaves wore shirtings; everyone else wore loose-fitting robes. To the Romans, a shirt meant a man was a foreigner; they themselves preferred togas. For the knights of the middle ages, a shirt was more than just a garment — its metal surface protected their lives from the lance. And when they went in for more relaxing entertainment, it was the man with the laciest ruffles who won the hand of the maid in distress.

In the early days of the United States, men of distinction were never seen in public without their lace collars. Even such hardy revolutionaries as Thomas Jefferson and George Washington affected this custom. Generals rode into battle with a proper touch of silk at the neck, and hardly an officer could be found who didn't copy their fashion lead.

**Those Casual Americans**

It could even be argued that shirt styles helped win the War for Independence. Benjamin Franklin, appointed ambassador to France for the colonies during the Revolution, scorned the fancy vestments of the Europeans. He usually appeared at receptions dressed in the simple, homely and unembroidered shirts that symbolized the new America. This lack of affectation endeared him to the French, and it was largely through their help that the colonies obtained their military supplies.

The color of a shirt has often had political significance. The British soldiers, known as the redcoats, could have more properly been called the "red-shirts." It was usually the only garment they wore on their chests, and its bright hue made a perfect target for the American soldiers. In the Civil War, the shirts of blue and grey separated a great nation for four bloody years. And in more recent times, radical groups have used the shirt as their rallying symbol. The black shirts of the Fascists, the red ones of the Communists, and the brown ones of the Nazis are an unforgettable reminder of terrorism.

During the twentieth century, the emphasis has been on comfort. Photographs and silent movies bring back to memory those high, choking collars that once were in style. Those grim expressions we often see in old portraits were probably due to the subject's agony. It was like wearing a perpetual dog collar, laced tight by a string-like tie.

**Happy Days Are Here Again**

Modern shirt design has made shirt-wearing a pleasure. Not only are there a large assortment of sizes to fit each individual, but there are different collar styles that can almost change your personality. There are shirts for play, and shirts for dress, and even Biway shirts that are convertible to either mode. The man who is conscious of his appearance — and who can afford not to be? — will see to it that he chooses the style most appropriate for his needs.


One of America's leading shirt-makers offers a line of collar styles that actually seem to change your height and weight! They accent your good features and minimize physical irregularities, providing you with maximum comfort at the same time.

**Chatty Advice**

If you're the long, lean and wiry type, the short point, medium spread "Glen" or the round-cornered "Tabber" collars will make you look less hungry. And if you're at the heavier end of the scale, the medium-point "Drake" style gives you a slimmer and neater appearance. For extra-thick necks, a special low-slope "Drew" collar provides long-needed comfort.

The famous Gordon Oxford shirt has long been a favorite on college campuses; in fact, the button-down shirt is fast becoming the big style in office and casual wear. Its neatness and withering resistance reduce the need for constant shirt changes, too.

The revolution in collars, produced by the research of Arrow and other companies, makes it possible for you to choose for your own unique needs. The style you wear no longer tells about your job, but it tells a lot about your clothing consciousness. If Sherlock Holmes were still around, he could at least make one deduction: the man who selects the right collar knows shirts. It brings out the best in him. And even Watson wouldn't be surprised to hear, "It's elementary, my dear doctor."



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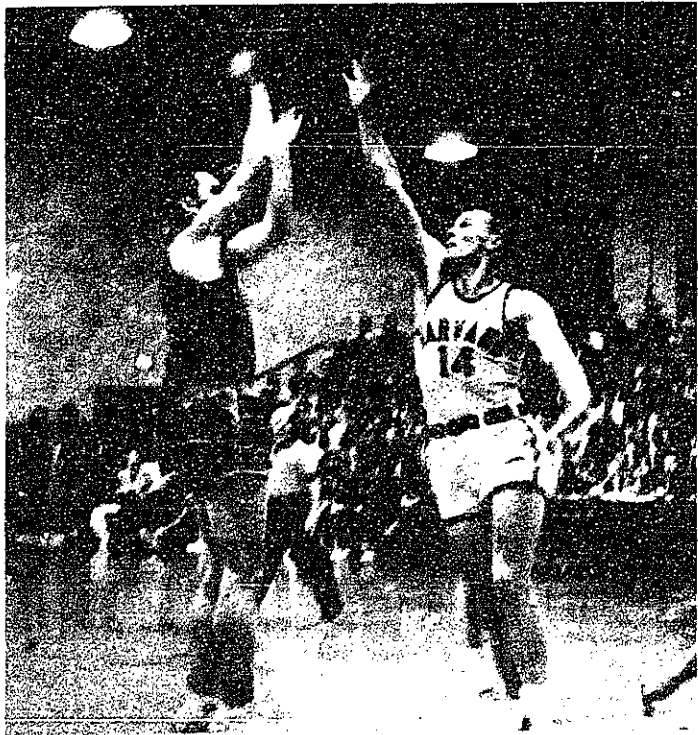
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## Cagers Drop Home Opener to Harvard



A jump shot is launched by a Techman in the Harvard game.

Saturday evening the varsity basketball team opened their home schedule as they played host to Harvard. The Techmen were outclassed 84-34 by the red-hot Crimson squad. Three evenings before, the Engineers had been edged 52-49 by Northeastern and they were looking for their first win of the season.

The contest indisputably belonged to the visitors when, with the score 11-9 in their favor, they ran off seven straight. Then the Beavers' Dave Koch, '62 and Hugh Morrow, '60, tried to get their squad back into contention with quick buckets, but Harvard tore off eight points in a row and continued to soar to a 44-20 lead at the intermission.

The second half failed to change the complexion of the game, and the Cantabs' pair of quintets continued to roll up the score over the weary Techmen. With about three minutes left, MIT Coach Jack Barry went to his bench and substituted freely.

Until John Crissman, '61 fouled out midway in the second half, he, Morrow, Dave Koch, Howie Ziehm, '62, and Cauck Gamble, '62, had played almost the entire game. Morrow was the Engineers' high scorer with 11, but his shooting was way off, as the tight Harvard defense forced him to shoot from far outside the keyhole. This same defense kept MIT from taking long shots as well as intercepting many of the Beaver passes.

Tonight the varsity quintet meets a WPI team that has beaten Trinity (79-58 victors over MIT) at the Cage at 8:15.

In the preceding contest Saturday evening, the MIT freshmen surprised the Harvard yearlings to force the game into overtime. Then, in the final second of the first extra session, a tap-in gave Harvard the win, 56-54.

## Frosh Matman Edged

## Varsity Wrestlers Down Wesleyan

Andrew Bulfer, '61, gained the lone victory by a pin for MIT Friday as the Engineer wrestlers edged Wesleyan, 16-13. The victory marked a great improvement for the Beavers, who lost 8-21 to Wesleyan last year.

It was the second triumph of the current campaign for coach Alex Sotir's matmen, who crushed Tufts 23-3 last weekend. The freshmen grapplers fared not so well, however, as they absorbed their first loss, 15-16.

### Bulfer Wins In 2:16

Bulfer, competing in the 130 lb. class, ended his match at 2:16. Decisions went to Techmen John Sullivan, '61, in the 147 lb. division (4-2), Dave Latham, '61, in the 137 lb. group (6-2) and Greg Brown, '62, in the 157 lb. section (5-0).

Captain Don Weaver, '60, battled to a 2-2 draw with his opponent in the 123 lb. class.

The Engineers dropped two decisions, by Paul Olmstead, '62, and Howard Graves, '62, and lost one match by a fall.

### Fenton Leads Frosh

John Fenton recorded the only pin for coach Jim Maloney's freshmen as he canvassed his opponent in 2:32.

Jim Evans rolled to an easy 6-1 decision for the Beavers while Terry Chatwin was held to a draw in a 147 lb. match. Armen Gabrielian won by default.

### Harvard Match Wednesday

The grapplers will be in action at Harvard in an effort to avenge last year's 34-0 defeat by the Crimson tomorrow in the final match before Christmas.

## BC Cops First Meet On New Cinderpath

By Paul T. Robertson, '61

Boston College spoiled the varsity track team's debut on their new track in Rockwell Cage Saturday afternoon by a 72-41 count. The frosh were also downed by an 80 1/4-30 3/4 margin.

The Beavers easily outscored the visitors in the field events, 26-19, but were unable to keep up with the BC runners, with only Bob Williamson, '60, managing to break into the winners' circle in the low hurdles.

High scorers for Tech were Williamson with a first in the hurdles and second in the 50-yard dash, and Captain Bill Nicholson, '60, also with a first and second place, in the 35-pound weight throw and shotput, respectively, for eight points. Don Morrison, '61, followed with seconds in the pole vault and broad jump for six tallies, while Nate Liskov, '60, was victorious in the pole vault, and Neal Bacote, '62, in the broad jump. Steve Hester led the freshman effort with 8 points.

Since this was the first meet run on the new track, all the winning times automatically become track records. Those currently by MIT runners are: Bob Williamson, '60, 45-yard low hurdles, :05.9; (Freshman) Steve Hester, '63, 45-yard high hurdles, :06.9.

# engineers

and what they do at Pratt & Whitney Aircraft...

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Engineers at Pratt & Whitney Aircraft today are concerned with the development of all forms of flight propulsion systems—air breathing, rocket, nuclear and other advanced types for propulsion in space. Many of these systems are so entirely new in concept that their design and development, and allied research programs, require technical personnel not previously associated with the development of aircraft engines. Where the company was once primarily interested in graduates with degrees in mechanical and aeronautical engineering, it now also requires men with degrees in electrical, chemical, and nuclear engineering, and in physics, chemistry, and metallurgy.

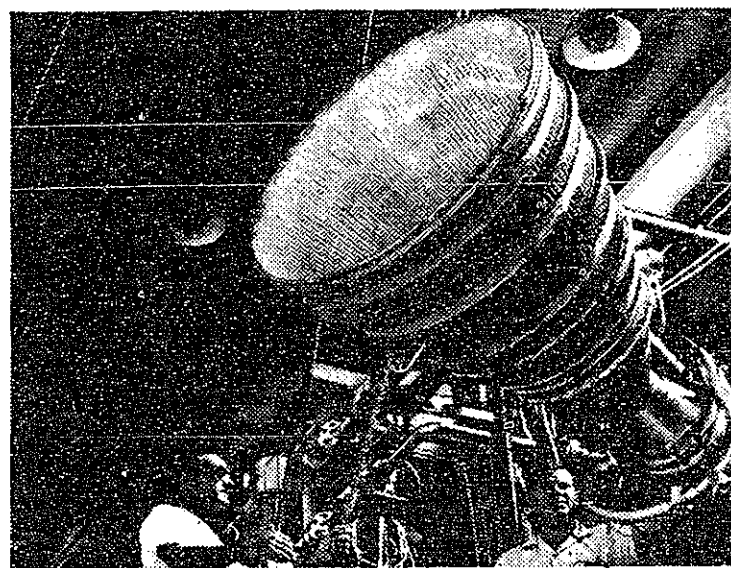
Included in a wide range of engineering activities open to technically trained graduates at all levels are these four basic fields:

**ANALYTICAL ENGINEERING** Men engaged in this activity are concerned with fundamental investigations in the fields of science or engineering related to the conception of new products. They carry out detailed analyses of advanced flight and space systems and interpret results in terms of practical design applications. They provide basic information which is essential in determining the types of systems that have development potential.

**DESIGN ENGINEERING** The prime requisite here is an active interest in the application of aerodynamics, thermodynamics, stress analysis, and principles of machine design to the creation of new flight propulsion systems. Men engaged in this activity at P&WA establish the specific performance and structural requirements of the new product and design it as a complete working mechanism.

**EXPERIMENTAL ENGINEERING** Here men supervise and coordinate fabrication, assembly and laboratory testing of experimental apparatus, system components, and development engines. They devise test rigs and laboratory setups, specify instrumentation and direct execution of the actual test programs. Responsibility in this phase of the development program also includes analysis of test data, reporting of results and recommendations for future effort.

**MATERIALS ENGINEERING** Men active in this field at P&WA investigate metals, alloys and other materials under various environmental conditions to determine their usefulness as applied to advanced flight propulsion systems. They devise material testing methods and design special test equipment. They are also responsible for the determination of new fabrication techniques and causes of failures or manufacturing difficulties.



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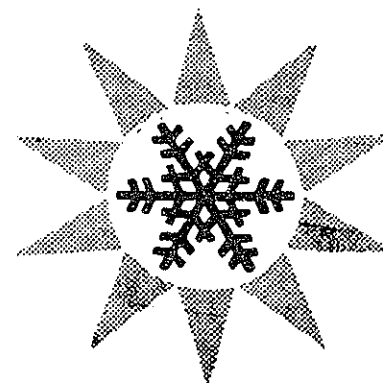
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# Beaver Swim Teams Win; Break Three MIT Records

One varsity and two freshman records were eclipsed Saturday as both Engineer swimming teams gained decisive victories.

The varsity routed Bowdoin, 50-36, at Alumni Pool while the frosh whipped Army, 54-23, at West Point.

### West Sets Mark

Burnell West, '60, clipped six-tenths of a second off the 200-yard breast-stroke mark with a 2:34.3 performance which came on the heels of his second leg in the winning medley relay.

The relay team, composed of Tom Ising, '61, West, Antonio Silvestri, '61, and captain John Windle, '60, turned in a time of 4:11.1 for the 400-yards.

Ising and Windle, together with West, were double winners for the Tech-men. Ising took the 200-yard backstroke with a 2:21.0 clocking and Windle copped the 100-yard freestyle in :54.3.

Roger Cooke, '62, led the pack in the 50-yard freestyle with a :24.3 mark and Dave Stein, '62, captured the 440-freestyle in 5:28.0.

Diving honors went to Bill Bails, '62, with 50.5 points.

### Frosh Lead From Start

The two record-breaking freshmen performances followed a resounding victory by a strong Beaver medley relay quartet made up of captain Tim Sloat, Lauren Sompayrac, Neil Golden and Jim Hufford.

Joe Schrade broke the first standard with a :24.3 in the 50-yard freestyle, then turned in a :55.0 in the 100-yarder, a tenth of a second off the record.

Sompayrac raced to a fine 1:11.1 victory in the 100-yard breaststroke, a full one-and-one-tenth seconds better than the existing record.

A butterfly victory by Golden and the 1-2 performance of Harry Colburn and Louis Thompson in the diving event added to the margin of victory.

**Varsity Summary**  
MIT 50 — Bowdoin 36  
Medley Relay — 1, MIT (Ising, West, Silvestri, Windle); Time: 4:11.1.  
220-yard Freestyle — 1, Wallace, Bowdoin; Time: 2:20.1.  
50-yard Freestyle — 1, Cooke, MIT; Time: 0:24.3.  
Diving — Bails, MIT; 50.5 points.  
100-yard Butterfly — 1, Riley, Bowdoin; Time: 1:01.8.  
100-yard Freestyle — 1, Windle, MIT; Time: :54.3.  
200-yard Backstroke — 1, Ising, MIT; Time: 2:21.0.  
440-yard Freestyle — 1, Stein, MIT; Time: 5:28.0.  
200-yard Breaststroke — 1, West, MIT; Time: 2:34.3 (New MIT Varsity Record).  
Freestyle Relay — 1, Bowdoin; Time: 3:39.6.

### On Deck

**Tuesday**  
Varsity basketball with W.P.I. 8:15 P.M.  
Varsity hockey at New Hampshire  
Freshman basketball with W.P.I. 6:15 P.M.  
Freshman hockey with New Hampshire 7:00 P.M.  
**Wednesday**  
Varsity fencing at Harvard  
Varsity rifle with Tufts 6:30 P.M.  
Varsity squash at Harvard  
Varsity wrestling at Harvard

It is rumored that Senior House has recently organized a Rushing Committee to investigate the many applications for rooms in this apparently popular dormitory. Is Senior House really a fraternity in Disguise?

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# Racqueteers Lose to Army, Navy; Meet Strong Harvard Team Next

After an encouraging opening match against Dartmouth last weekend, the varsity squash team suffered 8-1 defeats by Navy and Army this past weekend. Playing at the du Pont Center courts Friday afternoon, the Engineers were able to take only the number two match, while the following afternoon at West Point, victory at number three averted the shutout.

### Klapper Wins

Jack Klapper, '61, downed his opponent from Annapolis 3-2, in a match that was close all the way. The other eight contests against Navy were all lost by more than one game. In addition, Ravi Sikri, '61, playing in the ninth position, suffered an eye injury to put him out of action temporarily.

### El Sherbiny Triumphs

Saturday's results were substantially the same, however, the lone Beaver victor this time was Loutfy El Sherbiny, '61, at the number three spot. Sherbiny squeezed out at 3-2 triumph

by scores of 15-10, 11-15, 16-15, 7-15, and 17-16. John Beckett, '60, at seven, took two games before bowing 3-2, while John Priest, '60, at six and Farid Saad at number one each won one game. Blanked were Klapper at two, Bob Hodges, '60, at four, Colin Clive, '60, at five, George Meyer, '62, at eight, and Joe Strutt, '62, at nine.

### Schedule Unfavorable

Tomorrow evening at 7:00 P.M., the racquetmen travel to Harvard in their final appearance before the New Year. This will be the concluding match of four of the roughest encounters that the varsity will have this winter.

It was an unfortunate break of the schedule that sent the unseasoned Techmen against such formidable opposition as Dartmouth, Navy, Army, and Harvard at the start of the campaign.

After the vacation, Coach Ed Crocker's squad will meet Amherst, Williams, and the University of Toronto.

# Christmastime at WTBS

As a special end-of-the-year feature, WTBS will present a four hour program of songs of the '50's. Be sure to tune in on Thursday Dec. 17 5:00 P.M.

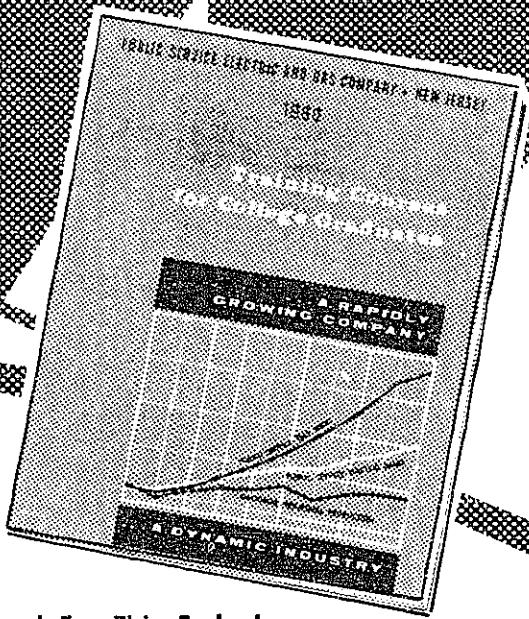
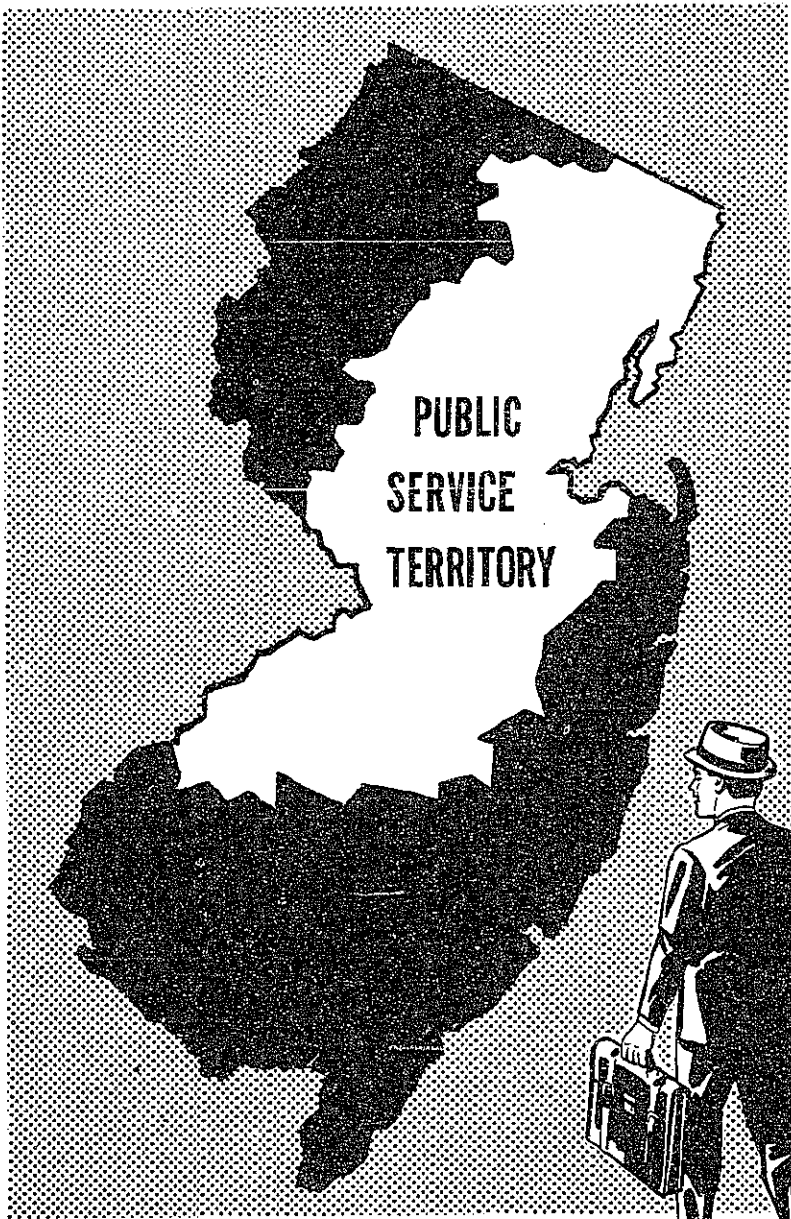
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Following this, WTBS will present a program of Christmas music, featuring a reading of — "The Other Wise Man" — at 10:00

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# Getting Down to Business

Editor's note: We didn't believe this either. Sorry we didn't print it the minute we got it — we been saving it all for ourselves.

It had to happen sooner or later. They expect us to get down to business, and take this classroom, textbook and term paper jazz seriously.

The first few weeks are always great. There are a lot of important things to be taken care of, like lining up dates and getting unpacked and generally getting squared away. The instructors seem to understand this and don't make too many demands. But there's always a time of reckoning, and the first thing you know you're being clobbered with a spot quiz or a paper. That's the tipoff. Though the instructors don't actually say it, what they mean is — "Okay, I've been pretty patient so far. Now, you get down to work, or else —"

Of course, comfort is the first consideration in the classroom. Nobody can expect a man to concentrate on electronics or history when he's being distracted by uncomfortable clothes. On the other hand, the sloppy look is way out. Many colleges have even gone so far as to insist on ties and jackets in the classrooms.

Wool challis is the best news in ties. In soft fabric, muted colors, stripes or small overall designs, these ties somehow strike the right note. In fact, they are called the "Ex Libris" series — and don't look nearly as academic as they sound.

For those of us who don't quite function right in the morning, there's an all-wool Kwip-Klip tie, and its knot looks better than anything we have ever been able to manage with a knot. In black, it's right with those new dark check gingham or oxford shirts.

The sports jacket and casual shirt boys have it made this season. The new University Tabber collar is be-

coming to practically everyone, and looks great in striped or checked oxford cloth. It also manages to give a trim, well-dressed and alert look, which is useful in that first class when you're still sound asleep. If you're too clumsy in the morning to worry with the button for the tab, ask for the new Tabber snap collar. The ends of the tab just snap together. Between that and the clip-on tie, you can get ten minutes more sleep in the morning.

The new pageant prints, however, are eye-openers. Small, neat designs, printed fine broadcloth, reflect to the days of tournaments, jousting and heraldry. The designs don't really have lions rampant, but they resemble that era all the same. The colors are muted and softened and darkened — which seems right, too.

Any student spends a lot of time sitting down — so comfort in that department is also pretty important. The Arrow shorts have a no-sag, no-bind contour seat, and are available in an impressive array of colors and fabrics. You want to sport your Fraternity motif, or your college mascot? Better still, the mascot of your girl's college? You'll find solid-color shorts with a choice of these motifs, discreetly embroidered. You want to carry the new colors right down to the skin? Pick shorts in deep Tartan or Ivy colorings, in plaids or stripes, and even neat foulard designs. You like the boat-neck on your Shetland sweater? Ask to see a T-shirt cut with a boat neck. It is a new idea, and a very comfortable one.

So, pick your classroom clothes for comfort as well as style. You may not make Dean's list, but you'll look good when you leave.



CHICAGO — STUDENTS FLIP OVER "FLIPJACKS!" Co-ed Ellen Deutsch and friend Phil Blume dig into latest eating fad here — flipjacks. Newest campus concoction uses six pancakes, with two pints of ice cream, three bananas, 1/2 dozen pineapple slices and handful of chopped nuts sandwiched in between, gobs of corn syrup poured on top.

## COPE

(Continued from page 1)

in 1909 and received the B.S. degree in 1929 from Butler University and the Ph.D. in 1932 from the University of Wisconsin. He was a National Research Fellow at Harvard University from 1932 to 1934 and a Guggenheim Fellow in 1940-41.

From 1934 to 1941, Professor Cope taught chemistry at Bryn Mawr College, and for the next three years was associate professor of chemistry at Columbia University. He joined the MIT faculty in 1945.

The American Chemical Society, with 158 local sections and 22 scientific and technical divisions, is the world's largest professional association of chemists and chemical engineers. The Society's national headquarters is at 1155 Sixteenth Street, N. W., Washington 6, D. C.

## AWS

The Association of Women Students cordially invites you to attend their Christmas Open House tomorrow afternoon in the Margaret Cheney Room.

## WANTED

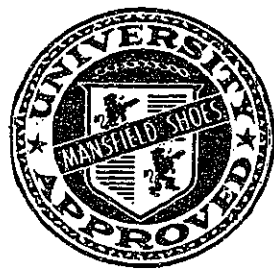
MIT Students to wear our tuxedos at all your proms. Brookline Formal Wear — 392 Harvard St., Brookline — AS 7-1312.

MERRY CHRISTMAS FROM WOLFGANG

Enjoy Your Holiday By Being Sure of a Good Mark Freshman Chemistry 5:01 Review Thursday December 17 6 to 8 P.M. ASSOCIATED TUTORS 10 Ames Street KI 7-4990

## University Styled

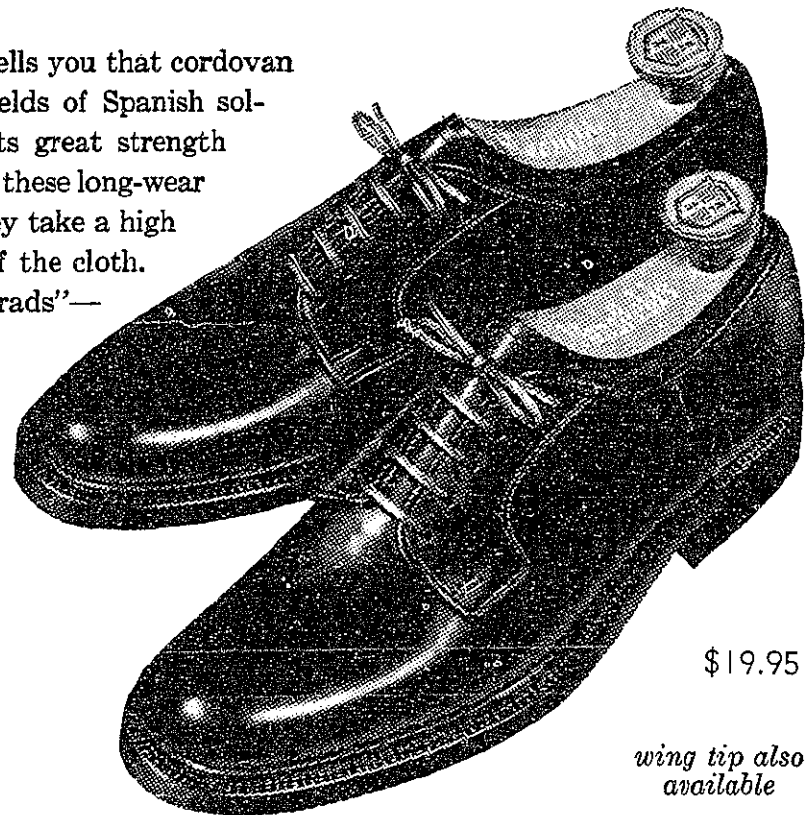
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